# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

# Paul Bacchi and Paul S. Filipski

Application No. 10/649,116

Filed: August 26, 2003

For: SPECIMEN SENSING AND EDGE

**GRIPPING END EFFECTOR** 

Group Art Unit:

Examiner:

Date: November 21, 2003



Confirmation No. 5500

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO:

COMMISSIONER FOR PATENTS PO BOX 1450 ALEXANDRIA, VA 22313-1450

November (21, 200)

Connie English Typed Name

# TRANSMITTAL LETTER

#### TO THE COMMISSIONER FOR PATENTS:

Enclosed for filing in the above-referenced application are the following:

- [X] Information Disclosure Statement
- [X] Form PTO-1449
- [X] Copies of cited references (five enclosed)
- [X] Return Receipt postcard

The Commissioner is hereby authorized to charge any additional fees which may be required in connection with filing of these papers, or credit overpayment, to Account No. 19-4455. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Paul Bacchi and Paul S. Filipski

Paul S. Angello

Registration No. 30,991

STOEL RIVES LLP 900 SW Fifth Avenue, Suite 2600 Portland, Oregon 97204-1268

Telephone: (503) 224-3380 Facsimile: (503) 220-2480

Attorney Docket No.: 40146/32:6

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE In re application of NOV 2 4 2003 Paul Bacchi and Paul S. Filipski Confirmation No. 5500 HEREBY CERTIFY THAT THIS CORRESPONDENCE Application No. 10/649,116 IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN Filed: August 26, 2003 **ENVELOPE ADDRESSED TO: COMMISSIONER FOR PATENTS** For: SPECIMEN SENSING AND EDGE PO BOX 1450 **ALEXANDRIA, VA 22313-1450 GRIPPING END EFFECTOR** Group Art Unit: Date Examiner: Connie English Date: November 21, 2003 Typed Name INFORMATION DISCLOSURE STATEMENT TO THE COMMISSIONER FOR PATENTS: Pursuant to their duty of disclosure, applicants present for the Examiner's 1. consideration the documents listed on the accompanying Form PTO-1449. Copies of the documents AH and AL listed on Sheet 1 of 4, document AP  $\boxtimes$ listed on Sheet 2 of 4, and documents AN and AP on Sheet 3 of 4 are enclosed.  $\boxtimes$ Copies of the remaining documents listed are not enclosed because (1) they are already of record in U.S. Patent Application No. 10/223,075, filed August 15, 2002 (now U.S. Patent No. 6,618,645); U.S. Patent Application No. 09/920,353, filed August 1, 2001 (now U.S. Patent No. 6,438,460); U.S. Patent Application No. 09/312,343, filed May 14, 1999 (now U.S. Patent No. 6,275,748); and U.S. Patent Application No. 09/204,747, filed December 2, 1998 (now U.S. Patent No. 6,256,555), on each of which this application relies for an earlier filing date under 35 U.S.C. § 120, and (2) any information disclosure statement filed in the prosecution of any of the aboveidentified patent applications, complies with 37 C.F.R. §§ 1.98(a) and (c). (37 C.F.R. § 1.98(d).) (Applicants note that it is permissible to omit copies of listed U.S. patent documents because this application was filed after June 30, 2003 and is, therefore, subject to image file wrapper processing.) The Examiner's attention is directed to the enclosed copy of copending U.S. 2. П Patent Application No. \_\_\_\_\_\_, filed \_\_\_\_\_, for \_\_\_\_\_, which is cited in this application. This information disclosure statement is being submitted (check box a., b., or c.): 3. Within three months of the filing date of a national application or entry M a. of the national stage in an international application; or before the mailing of a first Office action on the merits; or before the mailing of a first Office action after the filing of a request for continued

examination under 37 CFR 1.114. (No statement under 37 CFR

1.97(e) is required.); or

|    | b. |  | of eith  | the period set forth in paragraph 3a, but before the mailing date ner a final action, a notice of allowance, or an action that vise closes prosecution in the application. (Check box i. or ii.)  |
|----|----|--|--|---|
|    |    | i.   |  | A \$180.00 information disclosure statement submission fee set forth in 37 CFR 1.17(p) is enclosed, or  |
|    |    | ii.  |  | A statement specified by 37 CFR 1.97(e) is set forth below; or  |
|    | c. |  | before<br>1.97(e)  | the mailing date of a final action or notice of allowance and on or payment of the issue fee. A statement specified by 37 CFR is set forth below. Enclosed is a \$180.00 information sure statement processing fee set forth in 37 CFR 1.17(p).   |
| 4. |    | tement<br>hereby                                 | -  | ed by 37 CFR 1.97(e) is required, the attorney or agent signing hat:  |
|    |    | was fin  | rst cited<br>rpart fo  | information contained in the information disclosure statement in any communication from a foreign patent office in a preign application not more than three months prior to the filing ation disclosure statement; or   |
|    |    | cited in<br>applica<br>making<br>inform<br>37 CF | n a comation, and greason distion distinction distinct | formation contained in the information disclosure statement was amunication from a foreign patent office in a counterpart foreign and, to the knowledge of the person signing the certification after mable inquiry, no item of information contained in the lisclosure statement was known to any individual designated in (c) more than three months prior to the filing of the information tement. |
| 5. |    | A conclangua                                     | cise exp<br>ige and/   | planation of the relevance of each document not in the English or selected documents in the English language is set forth below.  |
|    |    |  |  | Respectfully submitted,   |
|    |    |  |  | Paul Bacchi and Paul S. Filipski  |
|    |    |  |  | By Paul S. Angello Paul S. Angello  |
|    |    |  |  | Registration No. 30,991   |

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Attorney Docket No. 40146/32:6

Sheet 1 of 4

· FORM PTO-1449 (REV. 7-80)

# U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

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(Uses several sheets if necessary)

ATTY. DOCKET NO. 40146/32:6

APPLICATION NO. 10/649,116

**APPLICANT** 

Paul Bacchi and Paul S. Filipski

**FILING DATE** August 26, 2003 **GROUP** 

#### U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    | DOCUMENT<br>NUMBER |   |   |   |   |   |   | DATE     | NAME          | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|----|--------------------|---|---|---|---|---|---|----------|---------------|-------|----------|-------------------------------|
|                     | AA | 6                  | 6 | 1 | 8 | 6 | 4 | 5 | 09/09/03 | Bacchi et al. | 700   | 254      | 08/15/02                      |
|                     | AB | 6                  | 4 | 5 | 3 | 2 | 1 | 4 | 09/17/02 | Bacchi et al. | 700   | 245      | 08/02/01                      |
|                     | AC | 6                  | 4 | 3 | 8 | 4 | 6 | 0 | 08/20/02 | Bacchi et al. | 700   | 245      | 08/01/01                      |
|                     | AD | 6                  | 2 | 7 | 5 | 7 | 4 | 8 | 08/14/01 | Bacchi et al. | 700   | 245      | 05/14/99                      |
|                     | AE | 6                  | 2 | 5 | 6 | 5 | 5 | 5 | 07/03/01 | Bacchi et al. | 700   | 245      | 12/02/98                      |
|                     | AF | 6                  | 1 | 6 | 0 | 2 | 6 | 5 | 12/12/00 | Bacchi et al. | 250   | 559.29   | 08/27/98                      |
|                     | AG | 6                  | 1 | 1 | 3 | 1 | 6 | 5 | 09/05/00 | Wen et al.    | 294   | 1.1      | 10/02/98                      |
|                     | AH | 6                  | 1 | 0 | 9 | 6 | 7 | 7 | 08/29/00 | Anthony       | 294   | 103.1    | 05/28/98                      |
|                     | AI | 6                  | 1 | 0 | 5 | 4 | 5 | 4 | 08/22/00 | Bacchi et al. | 074   | 490.03   | 06/16/98                      |
|                     | AJ | 6                  | 0 | 9 | 8 | 4 | 8 | 4 | 08/08/00 | Bacchi et al. | 074   | 490.03   | 12/02/98                      |
|                     | AK | 5                  | 9 | 8 | 8 | 9 | 7 | 1 | 11/23/99 | Fossey et al. | 414   | 416      | 07/09/97                      |

#### FOREIGN PATENT DOCUMENTS

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|   | AL | 0 0 3 3 3 5 9      |                  |   |   |   | 5 | 9 | 08.06.00 | wo      | H01L  | 21/00    | х      |       |
|   | AM | 0                  | 0                | 0 | 3 | 4 | 1 | 8 | 20.01.00 | wo      | H01L  | 21/00    | x      |       |
|   | AN | 0                  | 0 8 2 0 0 9 1    |   |   |   | 9 | 1 | 21.01.98 | Europe  | H01L  | 21/00    | x      |       |
| *************************************** | АО | 9                  | 7                | 4 | 5 | 8 | 6 | 1 | 04.12.97 | wo      | H01L  | 21/00    | x      |       |
|   | AP | 9                  | 7                | 4 | 4 | 8 | 1 | 6 | 27.11.97 | wo      | H01L  | 21/00    | х      |       |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

| T  |   |
|----|---|
| AR | Motion Engineering, Inc., Advanced motion control semiconductor front-end applications, 1999, Internet, pp. 1-12.   |
| AS | Srinivasan, Modeling and performance analysis of cluster tools using petri nets, 1998, IEEE, pp. 394-403.           |
| AT | Song et al., Intelligent rehabilitation robotic system for the disabled and the elderly, 1998, IEEE, pp. 2682-2685. |

## **EXAMINER**

**DATE CONSIDERED** 

EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 2 of 4

FORM PTO-1449 (REV. 7-80)

# U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(L)ses several sheets if necessary)

ATTY. DOCKET NO. 40146/32:6

APPLICATION NO. 10/649,116

APPLICANT

Paul Bacchi and Paul S. Filipski

FILING DATE August 26, 2003 GROUP

#### U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |    |   |   | OC<br>NU |   |   |   |   | DATE     | NAME            | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|----|---|---|----------|---|---|---|---|----------|-----------------|-------|----------|----------------------------|
| ·                   | AA | 5 | 9 | 8        | 0 | 1 | 8 | 8 | 11/09/99 | Ko et al.       | 414   | 417      | 11/28/97                   |
| -                   | AB | 5 | 9 | 4        | 4 | 4 | 7 | 6 | 08/31/99 | Bacchi et al.   | 414   | 783      | 03/26/97                   |
|                     | AC | 5 | 8 | 7        | 0 | 4 | 8 | 8 | 02/09/99 | Rush et al.     | 382   | 151      | 05/07/96                   |
|                     | AD | 5 | 8 | 1        | 0 | 9 | 3 | 5 | 09/22/98 | Lee et al.      | 118   | 728      | 11/29/95                   |
|                     | AE | 5 | 7 | 6        | 5 | 4 | 4 | 4 | 06/16/98 | Bacchi et al.   | 074   | 490.03   |                            |
|                     | AF | 5 | 7 | 4        | 1 | 1 | 1 | 3 | 04/21/98 | Bacchi et al.   | 414   | 744.5    |                            |
|                     | AG | 5 | 6 | 9        | 7 | 7 | 5 | 9 | 12/16/97 | Bacchi et al.   | 414   | 786      |                            |
|                     | AH | 5 | 6 | 6        | 9 | 6 | 4 | 4 | 09/23/97 | Kaihotsu et al. | 294   | 1.1      |                            |
|                     | ΑÏ | 5 | 5 | 3        | 8 | 3 | 8 | 5 | 07/23/96 | Bacchi et al.   | 414   | 403      |                            |
|                     | AJ | 5 | 5 | 1        | 3 | 9 | 4 | 8 | 05/07/96 | Bacchi et al.   | 414   | 783      |                            |
|                     | AK | 5 | 5 | 1        | 1 | 9 | 3 | 4 | 04/30/96 | Bacchi et al.   | 414   | 783      |                            |

#### FOREIGN PATENT DOCUMENTS

|                     |    | DOCUMENT.          |   |   |   |   | _ |      |          |        |          |       | TRANSL   | ATION |
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| , ,                 | AL | 8                  | 2 | 2 | 7 | 9 | 3 | 1    | 03.09.96 | Japan  | H01L     | 21/68 | Machine  |       |
|                     | AM | 0                  | 6 | 6 | 9 | 6 | 4 | 2    | 30.08.95 | Europe | H01L     | 21/00 | х        |       |
|                     | AN | 7                  | 2 | 0 | 1 | 9 | 4 | 7    | 04.08.95 | Japan  | 21       | 68    | х        |       |
|                     | AO | 7                  | 1 | 5 | 3 | 8 | 1 | 8    | 16.06.95 | Japan  | 21       | 68    | х        |       |
|                     | AP | 7                  | 0 | 3 | 7 | 9 | 6 | 0    | 07.02.95 | Japan  | H01L     | 21/68 | Abstract | L     |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

| AR | Arai et al., Micro endeffector with micro pyramids and integrated piezoresistive force sensor, 1996, IEEE, pp. 842-849.          |
|----|--|
| AS | Hesselroth et al., Neural network control of a pneumatic robot arm, 1994, IEEE, pp. 28-38.                                       |
| АТ | Brett et al., A tactile sensing technique for automatic gripping of compact shaped non-rigid materials, 1994, IEEE, pp. 5/1-5/5. |

## **EXAMINER**

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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|---------------------------|-------|---------|-----------|------------|------------|------------|-----|------------|--------------|----------------------------------|--|-----------------------|--------------|---------------------------|--|--|
| *FORM PTO-<br>(REV. 7-80) | 1449  |         |           |            |            |            |     |            |              | NT OF COMMERCE<br>ADEMARK OFFICE | 1  | 7. DOCKET N<br>6/32:6 |              | APPLICATION<br>10/649,116 | N NO.  |  |
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| HOW 2 LT                  |       | )       | `         |            |            |            |     |            |              | FILING DATE<br>August 26, 2003   |  |                       |              | GROUP                     |  |  |
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| EXAMINER DOCUMENT NUMBER  |       |         |           |            |            |            |     |            | DATE         | NAME                             |  | CLASS                 | SUBCLAS      | FILING<br>S IF APPRO      |  |  |
|                           | AA    | 5       | 4         | 5          | 6          | 5          | 6   | 1          | 10/10/95     | Poduje et al.                    |  | 414                   | 225          |                           |  |  |
|                           | AB    | 5       | 3         | 8          | 7          | 0          | 6   | 7          | 02/07/95     | Grunes                           |  | 414                   | 217          |                           |  |  |
|                           | AC    | 5       | 3         | 8          | 2          | 8          | 0   | 6          | 01/17/95     | Bacchi et al. 250                |  | 561                   |              |                           |  |  |
|                           | AD    | 5       | 3         | 3          | 2          | 3          | 5   | 2          | 07/26/94     | Poduje et al.                    | 1. 414                                     |                       | 225          |                           |  |  |
|                           | AE    | 5       | 2         | 3          | 8          | 3          | 5   | 4          | 08/24/93     | Volovich                         | 414 779                                    |                       | 779          |                           |  |  |
|                           | AF    | 5       | 1         | 3          | 3          | 6          | 3   | 5          | 07/28/92     | Malin et al.                     |  | 414                   | 744.8        |                           |  |  |
|                           | AG    | 5       | 0         | 9          | 2          | 7          | 2   | 9          | 03/03/92     | Yamazaki et al.                  |  | 414                   | 225          |                           |  |  |
|                           | AH    | 4       | 9         | 3          | 8          | 6          | 0   | 0          | 07/03/00     | Into                             |  | 365                   | 401          |                           |  |  |
|                           | AI    | 4       | 9         | 0          | 0          | 2          | 1   | 4          | 02/13/90     | Ben                              |  | 414                   | 416          |                           |  |  |
|                           | AJ    | 4       | 7         | 1          | 7          | 1          | 9   | 0          | 01/05/88     | Witherspoon                      |  | 294                   | 99.2         |                           |  |  |
|                           | AK    | 4       | 6         | 3          | 9          | 0          | 2   | 8          | 01/27/87     | Olson                            |  | 294                   | 34           |                           |  |  |
|                           |       |         |           |            |            |            |     |            | FORE         | IGN PATENT DOCUMENTS             |  |                       |              |                           |  |  |
| · EXAMINER<br>INITIAL     |       |         | Ι         |            | CUM<br>JME |            |     |            | DATE         | COUNTRY                          |  | CLASS                 | SUBCLAS      | TRANSL<br>S YES           | ATION<br>NO                                      |  |
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|                           | AM    | 9       | 4         | 1          | 9          | 8          | 2   | 1          | 01.09.94     | wo                               |  | H01L                  | 21/00        | Abstract                  |  |  |
|                           | AN    | 6       | 1         | 5          | 5          | 3          | 6   | 6          | 03.06.94     | Japan                            |  | B25J                  | 19/00        | Machine                   |  |  |
|                           | AO    | 4       | 3         | 4          | 3          | 4          | 4   | 8          | 30.11.92     | Japan                            |  | 21                    | 68           | Machine                   |  |  |
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

Japan

7 02.10.92

AR Mahalingam et al., Special challenges of robotic gripping in space, 1988, IEEE, pp. 581-586.

AS AT

**EXAMINER** 

DATE CONSIDERED

21/68

Abstract

H01L

EXAMINER: Initial if reference considered, whether or not citation is in conformation with MPEP609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| ,                          | •                    |                    |          |              |           |          |              |            |               |   |                                   |                       |              | Sheet 4 of                 | f 4   |  |
|----------------------------|----------------------|--------------------|----------|--------------|-----------|----------|--------------|------------|---------------|---|-----------------------------------|-----------------------|--------------|----------------------------|-------|--|
| FORM PTO-1<br>(REV. 7-80)  | 449                  |                    |          |              |           |          |              |            |               | NT OF COMMERCE<br>ADEMARK OFFICE                                |                                   | 7. DOCKET 1<br>6/32:6 |              | APPLICATION NO. 10/649,116 |       |  |
|                            | ON                   | QE<br>(            | M<br>Us  | IA<br>S      | IO<br>Sev | N l      | DIS          | SCI<br>hee | OSURE C       | CITATION APPLICANT Paul Bacchi and Paul S                       |                                   |                       | Paul S. Fili | pski                       |       |  |
|                            | NOV 2                | <b>L</b> '         | 5003     | ١            |           |          |              |            |               |   | FILING DATE August 26, 2003 GROUP |                       |              |                            |       |  |
|                            | ENT 8 1              | RAS                | EM       |              |           |          |              |            | U.S           | S. PATENT DOCUMENTS   |                                   |                       |              |                            |       |  |
| EXAMINER<br>INITIAL        |                      | DOCUMENT<br>NUMBER |          |              |           |          |              |            | DATE          | NAME  |                                   | CLASS SUBC            |              | FILING DA                  |       |  |
|                            | AA                   | 4                  | 6        | 6            | 2         | 8        | 1            | 1          | 05/05/87      | Hayden  |                                   | 414                   | 433          |                            |       |  |
| ,-···-                     | AB                   | 4                  | 4        | 5            | 2         | 4        | 8            | 0          | 06/05/84      | Maier et al.  |                                   | 294                   | 104          |                            |       |  |
| <u> </u>                   | AC                   | 4                  | 4        | 1            | 0         | 2        | 0            | 9          | 10/18/83      | Trapani   |                                   | 294                   | 34           |                            |       |  |
|                            | AD                   | 4                  | 0        | 2            | 4         | 9        | 4            | 4          | 05/24/97      | Adams et al.  |                                   | 198                   | 394          |                            |       |  |
|                            | AE                   | 2                  | 3        | 6            | 7         | 9        | 9            | 1          | 01/23/45      | Bailey  | -                                 | 294                   | 34           |                            |       |  |
|                            | AF                   |                    |          |              |           |          |              |            |               |   |                                   |                       |              |                            |       |  |
| ,                          | AG                   |                    |          |              |           |          |              |            |               |   |                                   |                       |              |                            |       |  |
|                            | АН                   |                    |          |              |           |          |              |            |               |   |                                   | _                     |              |                            |       |  |
|                            | AI                   |                    |          |              |           |          |              |            |               |   |                                   |                       |              |                            |       |  |
|                            | AJ                   |                    |          |              |           |          |              |            |               |   |                                   |                       |              |                            |       |  |
|                            | AK                   |                    |          |              |           |          |              |            |               |   |                                   |                       |              |                            |       |  |
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|                            | AR                   | Ī                  |          |              |           |          |              |            | ***           | <u> </u>  |                                   | <u> </u>              |              | <del></del>                |       |  |
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